

USSR

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UDC 621.397.62:621.317.799

KHACHATUROV, N. A.

"Use of the Frequency Method for Measuring the Vertical Parameters of a Television Raster"

Dokl. Nauchno-tekhn. konferentsii po itogam nauchno-issled. rabot za 1968-1969 gg. Mosk. energ. in-t, 1970. Sekts. radiotekhn.

Podnekts. televid. (Reports of the Scientific-Engineering Conference on the Advances in Scientific-Research Studies in 1968-1969.

Moscow Energetics Institute, 1970. Section on Radio Engineering.

Subsection on Television), Moscow, 1969, pp 58-67, (from RZh-Radiotekhnika, No 2, Feb 70, Abstract No 2G151)

Translation: The frequency spectrum is studied of the video signal obtained from an inclined test pattern under conditions of non-linear vertical distortions. It is shown that in the low frequency components of this spectrum there is quantatitive information on the vertical raster nonlinearity. A block diagram is presented of a device which makes it possible to measure the 1/2

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

USSR

KHACHATUROV, N. A., Dokl. Nauchno-tekhn. konferentsii po itogam nauchno-issled. rabot za 1968-1969 gg. Mosk. energ. in-t, 1970. Sekts. radiotekhn. Podsekts. televid., 1969, pp 58-67, (from Rih-Radiotekhnika, No 2, Feb 70, Abstract No 2G151)

nonlinearity by analysis of the test signal frequency spectrum. Five references. A.M.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

1/2 011

UNCLASSIFIED PROCESSING DATE--300CT70

TITLE-CUMPARATIVE CYTOCHEMICAL STUDY OF MITOCHONDRIA AND KINETOPLASTS IN SUME TRYPANCSUMIUS -U-

AUTHOR-(02)-KHACHATUROV, YE.N., SUKHAREVANEMAKOVA, N.N.

CCUNTRY OF INFO-USSR

SOURCE-TSITOLOGIYA 1970, 12(1), 77-84

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TGPIC TAGS-HITOCHGNDRION, TRYPANOSOMA CRUZI, DNA

CONTROL MARKING-NO RESTRICTIONS

DCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAHE--3002/0425

STEP NO--UR/9053/70/012/001/0077/0084

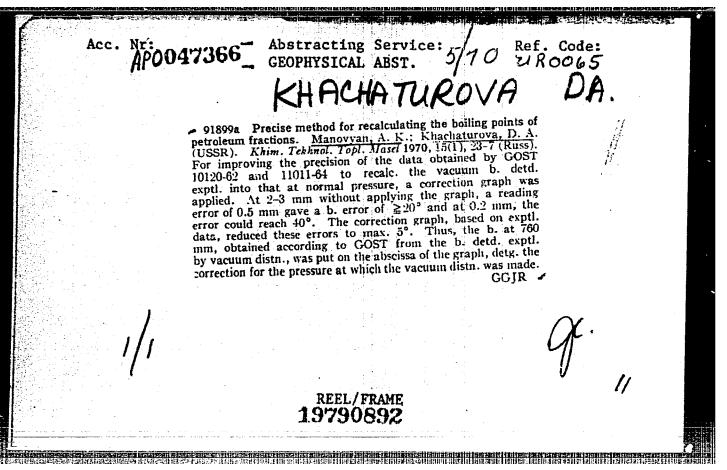
CIRC ACCESSION NO--APOL27996

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

2/2 011 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--AP0127996 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. MANY INVESTIGATORA ARE OF THE OPINION THAT KINETOPLASTS ARE DERIVED FROM THE MITOCHONDRIAL CRISTAE IN TRYPANOSOMIDS. AS BOTH CAN BE STAINED BY JANUS GREEN. STRIGOMONAS ONCOPELTI AND TRYPANOSOMA CRUZI WERE CULTURED IN VITRO AND COMPARATIVE CYTOCHEM. REACTIONS WERE PERFORMED TO INVESTIGATE THE NATURE OF THE KINETOPLASTS. INTRACELLULAR SUCCINIC DEHYDROGENASE (1) WAS LOCALIZED BY BLUE TETRAZOLIUM SALIS AND DNA (II) BY MCDIFICATION OF FEULGEN'S FLUCRESCENCE METHOD. I IS A SPECIFIC ENZYME OF MITOCHONDRIA, WAS ABSENT IN THE KINETOPLASTS OF 2 STRAINS OF TRYPANOSOMES, S. UNCOPELTI (LEPTCHGNAD FORM) AND T. CRUZI (LEPTOMONAD AND CRITHIDIAL FORMS); WHEREAS, II WAS EASILY DEMONSTRATED IN THE PARASITE KINETOPLASTS. WAS CONSPICIOUS BY ITS ABSENCE IN THE MITOCHONDRIA OF CELLS OF DIFFERENT ORIGINS, INCLUDING TRYPANDSOMES STUDIED, THESE OBSERVATIONS ARE CONTRADICTORY TO THE PRESENT BELIEF THAT THE KINETOPLASTS ARE AN ORGANDID OF MITOCHONDRIAL NATURE. METHODS OF FIXATION OF CELLS FOR CYTOCHEM. LUCALIZATION OF NUCLEIC ACIDS ARE DISCUSSED, AND OSO SUB4 FULLOWED BY CHROMIC ANHYDRIDE GAVE THE BEST RESULTS. FACILITY: LAB. FUNC. CELL MORPHOL., INST. MOL. BIOL., MOSCOW, USSR.

UNCLASSIFIED



USSR

UDC 620.179.1

KARAKHANOV, L. M., and KHACHATUROVA, O. A., All-Union Scientific Research Institute of Metrology imeni D. I. Wendeleyev, Toilisi Branch

"Nondestructive Methods of Determining Elastic and Strength Characteristics of Fiber-Glass Reinforced Plastics"

Sverdlovsk, Defektoskopiya, No 2, 1971, pp 77-83

Abstract: A review is presented with an analysis of nondestructive methods of determining moduli of normal elasticity, moduli of rigidity, and strength properties of fiber-glass reinforced plastics. It is recommended that research work on strength determination of plastic materials by nondestructive methods be concentrated on the application of the discussed impulse method which makes it possible to rate the change of physico-mechanical properties of fiber-glass reinforced plastics even after their being affected by high temperatures, radiation, aggressive media, and other factors. From a formula developed by the authors, strength characteristics of specimens and constructions of fiber-glass reinforced plastics can be calculated with an experimental degree of accuracy.

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USSR

KHACHATUROVA, T. V.

"One Estimate of the Spectrum of Certain Stable Random Processes"

Zap. Nauch. Seminarov Leningr. Otd. Mat. In-ta AN SSSR [Writings of Scientific Seminars Leningrad Division Mathematics Institute, Academy of Sciences, USSR], 1972, Vol 29, pp 42-50 (Translated from Referativnyy Zhurnal, Kibernetika, No 1, 1973, Abstract No 1 V356 by A. Kholevo).

Translation: With certain weak limitations on the spectral window, a refinement is produced of the asymptotic formula for displacement and known asymptotic formula for dispersion of a spectral estimate (for example, see RZhMat, 1965, 2V212K).

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USSR

VASIL'YEV, A. Ye., and KHACHATUR'YAN, A. A., Central Institute of Hematology and Blood Transfusion

"Synchesis of O-aminoacyl Derivatives of Dextran"

Riga, Fiziologicheski i Opticheski Aktivnyye Polimernyye Veshchestva, "Zinatne, 1971, pp 166-169

Abstract: A new method is suggested for the synthesis of such blood substitutes which could perform simultaneously several functions, such as hemodynamic + parenteral feeding, or hemodynamic + hemopoietic functions, etc. For this purpose several aminoacyl derivatives of dextran were synthesized which were considered as simplified analogs of glycoproteins with a reversed ratio of amino acid and carbon groups. The method is based on 0-acylation of monosaccharides by condensation of N-acylamino acids with sugars in the reaction with dicyclohexylcarbodimide

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USSR

VASIL'YEV, A. Ye., and KHACHATUR'YAN, A. A., Fiziologicheski i Opticheski Aktivnyy Polimernyye Veshchestva, "Zinatne," 1971, pp 166-169

with the use of pyridine and dimethylsulfoxide mixture as solvent in which all reagents were soluble. The reaction was carried out at 40-60°C and the reaction products were separated on Sephadex G-50 and precipitated with alcohol from water. Absence of a significant destruction of the polysaccharide chains was verified by a comparative fractionation of the starting and modified polymer on Sephadex G-75. A modified polysaccharide with free amine groups was prepared by hydrogenation of 0-acylaminoacyldextrans over Pd/C in the presence of two equivalents of oxalic acid.

USSR

UDC: 669.112.342:539.374

SUYAZOV, A. V., USIKOV, M. P., KHACHATURYAN, A. G.

"Structural Peculiarities of Low-Temperature Plastic Deformation of Martensite in High-Carbon Nickel Steel"

Sverdlovsk, Fizika Metallov i Metallovedeniye, Vol 36, No 5, Nov 73, pp 1033-1042.

Abstract: Electron microscope study of the Martensite of Fe-Ni-C steel, deformed at liquid-nitrogen temperature, establishes the existence of deformation twins in plains $\{112\}_{M}$, which are not mirror symmetry plains with an

accuracy to the tetragonality of the adjacent twinning and matrix latices. Theoretical analysis of the elastic stress state arising in this case can explain the decrease in tetragonality upon deformation of the martensite. The change in the tetragonal (011)-(110) doublet of the martensite observed in earlier works results from the formation of irregular twins on the {112} M.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

Acc. Nr: APO038041

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Ref. Code: UR 0056

PRIMARY SOURCE: Zhurnal Eksperimental'noy i Teoreticheskoy

Fiziki, 1970, Vol 58, Nr 1, pp/75-/90

THEORY OF SPACE-PERIODIC PHASE DISTRIBUTIONS (MODULATED STRUCTURES) PRODUCED IN DECOMPOSITION OF SOLID SOLUTIONS

Khachaturyan A. G.

A system is considered in which decomposition of a cubic solid solution into two cubic phases occurs, the phases differing from each other only with respect to component concentration and consequently to specific volumes. The distribution of liberated phases which ensures minimum of the free energy, in which elastic stress energy is taken into account, is considered. A solution of the corresponding variational problem indicates that three types of macroperiodic inclusion distributions may exist; these are one and two-dimensional distributions and two-dimensional structures with secondary modulation. Since inclusions of various phases differ only with respect to composition, the distributions may be conceived as macroperiodic composition modulations usually termed modulated structures. A common property of these structures is that the basis

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vector of the Bravais translations coincide with the directions of the cubic axes of the <100 ma.rix and the corresponding enverse lattices have sites located only in directions of the <100 type around the matrix inverse lattice sites. On X-ray and electron diffraction patterns the sinverse lattice of the modulated structures are observed as satellites around the Laue reflections from the matrix lattice.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

-1/2 014

UNCLASSIFIED

PROCESSING DATE-- 13NOV70 EITLE--CORRELATION CALCULATION IN AN ORDERING BINARY SOLED SOLUTION -U-

AUTHOR-(02)-BADALYAN, D.A., KHACHATURYAN, A.G.

COUNTRY OF INFO--USSR

SCURCE--FIZ. TVERD. TELA 1970, 12(2) 439-47

DATE PUBLISHED----70

SUBJECT AREAS-MATERIALS

TOPIC TAGS-SOLID SOLUTION, COPPER GOLD ALLOY, COPPER PLATINUM ALLOY, CRYSTAL LATTICE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--1986/0242

STEP NO--UR/0181/70/012/002/0439/0447

CIRC ACCESSION NO--APO102293

UNCLASSIFIED

PROCESSING DATE-- 13NOV70 UNCLASSIFIED 014 2/2 CIRC ACCESSION NO--APO102293 A METHOD IS PROPOSED TO ACCOUNT ABSTRACT/EXTRACT-- (U) GP-0-ABSTRACT. FOR THE CORRELATION IN THE EXPRESSION FOR THE FREE ENERGY OF A BINARY ORDERING SOLID SOLN. WITH AN ARBITRARY RADIUS OF INTERAT. INTERACTION. THE METHOD FOR CALCG. THE FREE ENERGY IS BASED, ON ONE HAND, ON THE APPLICATION OF THE THERMODYNAMIC THEORY OF PERTURBATIONS, AND ON THE "ME UTILIZATION OF THE REPRESENTATION OF THE 1 PART OTHER, OF IN THE FORM OF SUPERPOSITION OF STATIC PLANE HAVES, THE PROBABIL WHICH ARE PROPORTIONAL TO THE PARAMETERS OF THE LONG RANGE AMPLITUDE: APPROACH ALLOWS TO FORGO AN A PRIORI SUBDIVISION OF THE ORDER. of the disordered alloy into "OWN" And "Foreign" for LATTICE : GIVEN ATOM WHICH ASSUMES THAT THE STRUCTURE OF THE ORDERED ALLOY IS ALREADY KNOWN. AN EXPRESSION WAS OBTAINED FOR FREE ENERGY, ACCOUNTING FOR 4 CORRELATION CORRECTIONS, VALID FOR THE SYSTEMS WITH AN ARBITRARY DISTRIBUTION OF CRYSTAL LATTICE POINTS. AS A RESULT OF THE UTILIZATION OF THE OBTAINED RESULTS FOR THE ANAL. OF ORDERING IN CRYSTALLOGRAPHICALLY DIFFERENT SYSTEMS. AN EQUATION WAS OBTAINED FOR THE PARAMETER OF LONG RANGE ORDER OF THE ALLOY AB SUITABLE FOR THE DESCRIPTION OF ORDERING OF THE TYPES CSCL IN A BODY CENTERED LATTICE. CUPT AND CUAUR IN FACE CENTERED LATTICES, AND AN EQUATION FOR 2 PARAMETERS OF LONG RANGE GROER, WHICH CHARACTERIZE ORDERING ACCORDING TO THE TYPE FE SUB 3 AL. IN THE LIMITING CASES, WHEN POTENTIALS OF INTERAT. INTERACTION ARE DIFFERENT FROM ZERO IN THE 1ST COORDINATION SPHERE, THE RESULTS OBTAINED ARE REDUCED TO THOSE KNOWN PREVIOUSLY.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

1/2 008 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--REGENERATION OF A CATALYST FOR VINYL ACETATE SYNTHESIS -U-

AUTHOR-(05)-KHACHEYAN, KH.YE., TSIRLINA, R.N., FEDOROVA, N.M., BOGOLEPOVA,

YE.I., LVOVA, L.N.

COUNTRY OF INFO-USSR

SOURCE--U.S.S.R. 264,353
REFERENCE--OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, 47(9)
DATE PUBLISHED--O3MAR70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CATALYST REGENERATION, VINYL COMPOUND, ACETATE, CATALYTIC ORGANIC SYNTHESIS, CHEMICAL PATENT

CONTROL MARKING--NO RESTRICTIONS

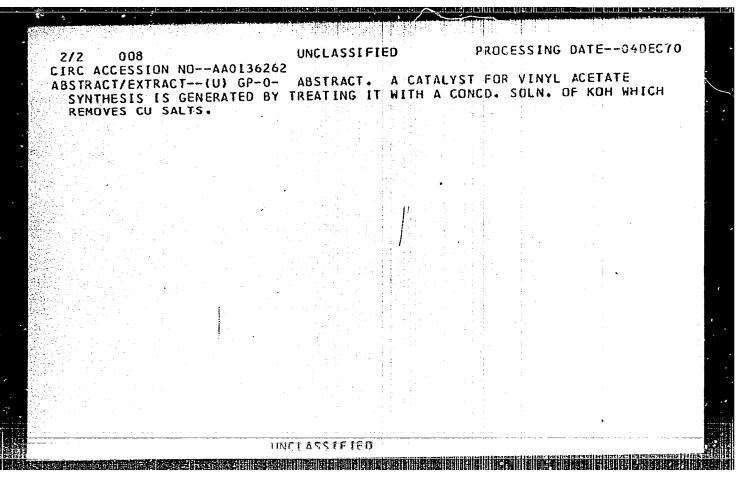
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0828

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0136262

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"



1/2 013 UNCLASSIFIED PROCESSING DATE--04DEC70 TITLE--SPIRAL STRUCTURE AND DISTRIBUTION OF STELLAR ASSOCIATIONS IN NGC 6946 -U-

AUTHOR-(02)-KHACHIKIAN, E.E., SAHAKIAN, K.A.

COUNTRY OF INFO--USSR, SWITZERLAND

SOURCE--THE SPIRAL STRUCTURE OF OUR GALAXY; PROCEEDINGS OF THE SYMPOSIUM, UNIVERSITAT BASEL, BASEL, SWITZERLAND, AUGUST 29-SEPTEMBER 4, 1969, DATE PUBLISHED-----70

SUBJECT AREAS-ASTRONOMY, ASTROPHYSICS

TOPIC TAGS--COLOR, INDEX, SPIRAL GALAXY, STELLAR MAGNITUDE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO---FD70/605030/F03 STEP NO---SZ/0000/70/000/038/0087/0090

CIRC ACCESSION NO--ATO141876

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

Z/2 013 UNCLASSIFIED PROCESSING DATE--04DECTO
CIRC ACCESSION NO--ATO141876
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. DEMONSTRATION THAT THE
ASSOCIATIONS OF NGC 6946 GUTLINE ITS SPIRAL ARMS. THERE IS NO RELATION
BETHEEN THE COLOR OR MAGNITUDE OF THE ASSOCIATIONS AND THEIR DISTANCE
FROM THE CENTER. THEIR MEAN ABSOLUTE MAGNITUDE IS 11.1 MAG AND THEIR
MEAN COLOR INDEX IS NEAR ZERO. FACILITY: BIURAKANSKAIA
ASTROFIZICHESKAIA OBSERVATORIIA, YEREVAN, ARMENIAN SSR.

USSR

GOROYAN, T. A., KHACHIYAN, E. Ye.

"Earthquake Resistance of Multistory Frame Buildings with Rigidity Decreasing with Each Successive Story"

Yerevan, Izvestiya Akademii Nauk Armyanskoy SSR, Seriya Tekhnicheskikh Nauk, Vol 25, No 3, 1972, pp 35-43.

Abstract: The frequency equations of multistory frame buildings with absolutely rigid beams and a linear decrease in rigidity of each successive story are analyzed. A formula is suggested for determination of the periods of the first three lowest harmonics of free oscillations of buildings of this type up to twenty stories high. The forms of oscillations of the buildings are studied. The stress states of specific ten story reinforced concrete frame buildings are studied using accelerograms of four California earthquakes of 7 to 8 units intensity in order to estimate the earthquake resistance of buildings with rigidity decreasing with height. It is noted that a decrease in rigidity with height causes significant modification of the stress state of the upper stories during earthquakes.

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USSR

UDC 69.032+669.841+624.159.1

GOROYAN, T. A., KHACHIYAN F. YF., Armenian Scientific Research Institute of Building Materials and Structures

"Analysis of the Response of Multistory Frame Buildings to Seismic Disturbances on the Basis of Accelograms of Strong Earthquakes"

Yerevan, Izvestiya Akademii nauk Armyanskoy SSR, Seriya tekhnicheskikh nauk, No. 4, 1971, pp 3-12

Abstract: A method is given for calculating the response of multistory buildings to seismic disturbances by using accelograms of earthquakes and applying a computer. The relative effect of different shapes of buildings and the scattering of energy on the magnitude of the seismic loads is analyzed using specific examples of 10-story frame buildings. The spectral method of calculating buildings for seismic disturbances gave satisfactory results only for systems with one degree of freedom but in the case of a system with many degrees of freedom there arise many difficulties in attempting to calculate the pile-up of higher forms of oscillations. An exact calculation of the

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GOROYAN, T. A., KHACHIYAN, E. YE., Izvestiya Akademii nauk Armyanskoy SSR, Seriya tekhnicheskikh nauk, No. 4, 1971, pp 3-12

effect of higher forms of oscillations on the magnitude of the seismic load is complicated chiefly due to the impossibility of a mathematical description of the law of soil vibrations in earthquakes. A computer is applied to overcome these difficulties by making it possible to integrate numerically the expression for the seismic load and to determine the maximum values of this load considering phase deviations of all its components, by using a given accelogram of the earthquake as a basis of the calculation. Four California earthquakes of intensity 7-8 points were used to analyze the relative effect of energy scattering and different shapes of oscillations on the formation of seismic loads in specific types of 10-story reinforced concrete frame buildings.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

D.G. KHACHIROV

Acc. Nr: AP0044023

Ref. Code: UR 0240

PRIMARY SOURCE: Gigiyena i Sanitariya, 1970, Nr 2, pp 52-56

EXPERIMENTAL STUDY OF SHORT-LIVING DAUGHTER PRODUCTS OF RADON IN THE RESPIRATORY TRACT

V. N. Kirichenko, Dzh. G. Khachirov, S. A. Dubrovia, Klyuch, V. Ye.; Bykhovskiy, A. V.

One should know the nature of the isotopes distribution in order to asses the dosage load on basal celis of the bronchial epithelium in different lengths of the respiratory tract following inhalation of radon and of its daughter products. Experimental investigations carried out with the aid of a specially elaborated method of direct alpha-spectrometry of the preparations helped to clear up the nature of the radon daughter products distribution in the mucosa of bronchial epithelium of dogs and rabbits. These data enable dosage loads on the basal cells of the bronchial epithelium to be measured more exactly when the air containing RaA, RaB, RaC and RaC¹ isotopes is inhaled by experimental animals.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

Construction

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UDC 624,042.7

KHACHIYAN E YE

"Seismic Spectra According to Individual Components of Accelerograms and Taking the Two Horizontal Components Jointly Into Account"

Yerevan, Doklady Akademii Nauk Armyanskoy SSR, Vol 51, No 4, 70, pp 207-213

Abstract: An attempt is made in this article to obtain certain qualitative and quantitative evaluations of the complex problem involved in the effect on a building of horizontal and vertical ground vibration components.

Two figures and one table are given to illustrate the findings in this article.

Some indication is given concerning the spectral identity of the source of the horizontal and vertical ground tremors. It is also found that the influence of attenuation on the spectral ordinates and the spectral characteristics is the same as in the case of horizontal vibrations.

The data in the table show that the maximal values for the total accelerations and shifts for individual buildings are up to two times that for the individual components, and that in the majority of cases they are 20-30% greater than the largest of the two maximal values from the individual 1/2

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KHACHIYAN, E. YE., Doklady Akademii Nauk Armyanskoy SSR, Vol 51, No 4, 70, pp 207-213

components. Thus, both components of the horizontal ground accelerations must be taken into account in order to find the real spectra.

Mention is made of the fact that the equipment used in preparing these data record shifts in the system with one degree of freedom in allowing for the two horizontal ground components; thus, in making comparisons with data obtained from other sources, some correction must be taken into account.

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USSR

GOROYAN, T. A. and KHACHIYAN, E. YE.

"Determination of Periods and Forms of Free Oscillations of Multi-Story Frame Buildings"

Yerevan, Izvestiya Akademii Nauk Armyanskoy SSR, Seriya Tekhn. Nauk, Vol 23, No 5, 1970, pp 43-51

Abstract: In an earlier work, the authors suggested a formula for determination of the first three tones of the free oscillations of buildings up to 20 stories high. Subsequently, they showed that for buildings of over five stories, the influence of differences of masses of individual stories within limits of 20-30% can be ignored, and the periods and forms of oscillations determined as for systems with equal masses in all stories. Continuing these studies, this article presents an analysis of the free oscillations of buildings in which the rigidity of the first story differs from the rigidities of the other stories, which are equal to each other.

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USSR

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UDC 621.382.2

IMENKOV, A. N., SIUKAYEV, N. V., KHADIKOV, M., Leningrad Physico Technical Institute imeni A. F. Toffe, Leningrad, Academy of Sciences USSR; North Osetian State University imeni K. L. Khetagurov, Ordzhonikidze, Ministry of Education RSFSR

"Temperature Relations of the Electrical Properties of Tunnel p-n-Junctions in InP"

Leningrad, Fizika i Tekhnika Poluprovodnikov, Vol 4, No 5, 1970, pp 886-891

Abstract: Electrical properties of tunnel p-n-junctions in InP between 77-340°K were investigated to determine current mechanisms at various voltages and parameters of the semiconductor in the n- and p-region. In the presence of inverse voltages the current predominates as a result of the direct tunnel effect of the conduction band -- light hole band. The effective mass of the electrons in the light hole band was determined. With forward voltages in the negative resistance section the current is basically caused by the tunnel effect of the conduction band -- impurity acceptor band. In the second ascending section of the 1/2

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IMENKOV, A. N., et al., Fizika i Tekhnika Poluprovednikov, Vol 4, No 5, 1970, pp 886-891

voltampere characteristic, the current obviously arises from tunneling from the deep impurity level. Moncerystalline plates of p-InP alloyed with Zp with a current carrier concentration basically of p = 7.8.10¹⁸ cm⁻³ and a mobility of $\mu_{\rm D}$ = 30 cm^{-/v}. sec at 295°K were used in the experiment. $I_{\rm Max}/I_{\rm min}$ depends much less on temperature than in the tunnel p-n-junctions made of GaAs and Ge. The characteristic voltages $V_{\rm max}$, $V_{\rm min}$ and $V_{\rm r}$ decrease with an increase in temperature; $dV_{\rm max}/dT$ is very large and larger than expected as a result of variation in depth of the Fermi levels.

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"APPROVED FOR RELEASE: 07/20/2001

CIA-RDP86-00513R002201230012-8

USSR

UDC: 620.191.32

TRIEUMSKIY, V. V., KALINICHENKO, I. I., and KHADYYEV, M. S.

"Study of Composition and Structure of Scale from Nickel (NP2 and NK0.2), Alumel and Chromel Wire Rod"

Izv. VUZ, Tsvetnaya Metallurgiya, No 3, 1970, pp 131-134

Abstract: Electronographic and chemical studies indicated that the scale from NP2 and NK0.2 alloy wire rod consists of NiO, NiFe₂O₄, and traces of nickel. The scale on alumel wire consists of NiO, NiAl₂O₄, NiMn₂O₄, Fe₅O₄, and traces of nickel, the scale from chromel wire - of NiO, NiCr₂O₄, Cr₂O₃, and (Fe, Cr)₂O₃. It is established that the upper layer of the scale on the wire rod of the alloys studied consists of NiO. The NiCr₂O₄, Cr₂O₃, (Fe, Cr)₂O₃ phases, as well as NiAl₂O₄ and NiMn₂O₄ are present as individual crystals, dispersed in the NiO. The NiFe₂O₄ and Fe₃O₄ spinels are present in the scale in the form cf individual interlayers.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201230012-8"

1/2 023 UNGLASSIFIED PROCESSING DATE--11DECTO TITLE--EFFECT OF NARINGENIN UN CAPILLARY PERMEABILITY AND FRAGILITY -U-

AUTHOR-(02)-KHADZHAY, YA.I., NIKOLAYEVA, A.V.

CCURTRY OF INFO--USSR

SGURCE-FARNAKOL. TCKSIKOL. (MOSCOW) 1970, 33(3), 313-16

DATE PULLISHED----70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

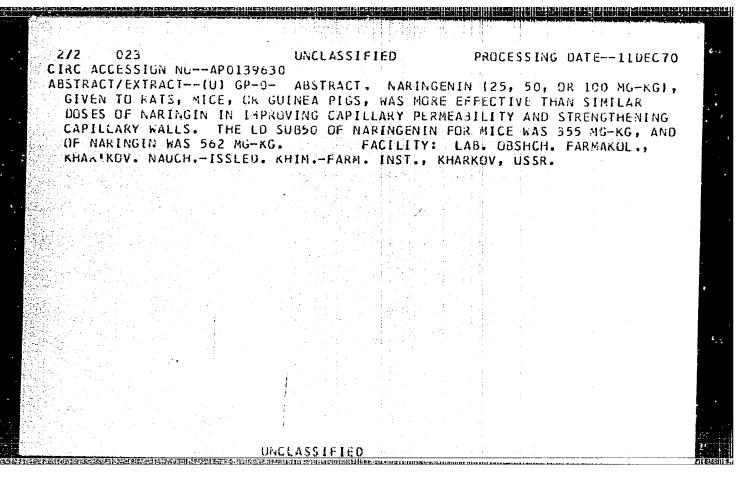
TOPIC TAGS--RAT, MUUSE, GUINEA PIG, CAPTELARY, DRUG EFFECT, TOXICOLOGY

CONTRUL MARKING--NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY FICHE NO---F070/605004/C12 STEP NO--UR/0390/70/038/003/0313/9316

CIRC-ACCESSION-NO--APO139630

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CHADTHAYEY. A. . Senior Scientific Forker, Brechmill (Central Asian Instituto for the Protection of Flants)

"On the Duration of Aceton of Cuganophosphorus Fragurations"

Mescow, Sashenita Rastonty, No 6, Jun 73, p 28

Translation: The air of our investigations was to verify the toxicity of insecticide-treated surface for granary weavil (Calassim granaria L.), confused flour beetle (Tribolium confusus Duv.), and for larvae of the brown

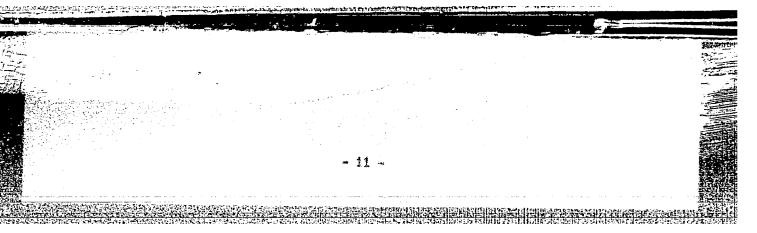
trologe (Nortal)

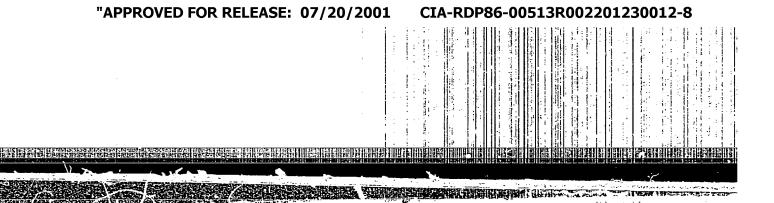
respectively, that of methylnitrophos - by 11.3 and 13%, and that or metathion -

Twenty days after treatment the action of chlorophos, methylnitrophos, metathion, trolene, and trichlorometaphos-3, on the granary weevil had decreased by 26.5, 34.5, 41.9, 32.3, and 27.7%, respectively, and on the confused flour beetle, by 20.4, 44.4, 37.7, 30.9 and 28%

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USSR

GOROYAN, T. A., KHACHIYAN, E. Ye.

"Earthquake Resistance of Multistory Frame Buildings with Rigidity Decreasing with Each Successive Story"

Yerevan, Izvestiya Akademii Nauk Armyanskoy SSR, Seriya Tekhnicheskikh Nauk, Vol 25, No 3, 1972, pp 35-43.

Abstract: The frequency equations of multistory frame buildings with absolutely rigid beams and a linear decrease in rigidity of each successive story are analyzed. A formula is suggested for determination of the periods of the first three lowest harmonics of free oscillations of buildings of this type up to twenty stories high. The forms of oscillations of the buildings are studied. The stress states of specific ten story reinforced concrete frame buildings are studied using accelerograms of four California earthquakes of 7 to 8 units intensity in order to estimate the earthquake resistance of buildings with rigidity decreasing with height. It is noted that a decrease in rigidity with height causes significant modification of the stress state of the upper stories during earthquakes.

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"APPROVED FOR RELEASE: 07/20/2001 UDC 69.032+669.841+624.159.1 E. YE., Armenian Scientific Research Institute of "Analysis of the Response of Multistory Frame Buildings to Seismic Disturbances GOROYAN, T. A., KHACUTYAN USSR Building Materials and Structures Yerevan, Izvestiya Akademii nauk Armyanskoy SSR, Seriya tekhnicheskikh nauk, on the Basis of Accelograms of Strong Earthquakes Abstract: A method is given for calculating the response of multistory build-ADSTRACT: A method is given for calculating the response of multistory buildings ings to seismic disturbances by using accelograms of earthquakes and applying ings to seismic disturbances by using accelograms of huildings and the a computer. The relative effect of different shapes of buildings and the No. 4, 1971, PP 3-12 a computer. The relative effect of different snapes of buildings and the scattering of energy on the magnitude of the seismic loads is analyzed using specific examples of 10-story frame buildings. The effect of method of calculations and the seismic loads is analyzed using specific examples of 10-story frame buildings. scattering or energy on the magnitude or the seismic loads is analyzed using specific examples of 10-story frame buildings. The spectral method of calculating buildings for seismic disturbances may satisfactory results only for specific examples of 10-Story frame pullatings. The spectral method of carculating buildings for seismic disturbances gave satisfactory results only for systems with one decrease but in the case of a custom with many systems with one degree of freedom but in the case of a system with many degrees of freedom there arise many difficulties in attempting to calculate the pile-up of higher forms of oscillations. An event calculation of the degrees of the the pile-up of higher forms of oscillations. An exact calculation of the

GOROYAN, T. A., KHACHIYAN, E. YE., Izvestiya Akademii nauk Armyanskoy SSR, Seriya tekhnicheskikh nauk, No. 4, 1971, pp 3-12

effect of higher forms of oscillations on the magnitude of the seismic load is complicated chiefly due to the impossibility of a mathematical description of the law of soil vibrations in earthquakes. A computer is applied to overcome these difficulties by making it possible to integrate numerically the expression for the seismic load and to determine the maximum values of this load considering phase deviations of all its components, by using a given accelogram of the earthquake as a basis of the calculation. Four California earthquakes of intensity 7-8 points were used to analyze the relative effect of energy scattering and different shapes of oscillations on the formation of seismic loads in specific types of 10-story reinforced concrete frame buildings.

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D.G. KHACHIROV

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Acc. Nr: AP0044023

PRIMARY SOURCE: Gigiyena i Sanitariya, 1970, Nr 2, pp 52-55

EXPERIMENTAL STUDY OF SHORT-LIVING DAUGHTER PRODUCTS OF RADON IN THE RESPIRATORY TRACT

V. N. Kirichenko, Lizh. G. Khachirov, S. A. Dubrovin, Klyuch, V. Ye.; Bykhovskiy, A. V.

One should know the nature of the isotopes distribution in order to asses the dosage load on basal cells of the bronchial epithelium in different lengths of the respiratory iract following inhalation of radon and of its daughter products. Experimental investigations carried out with the aid of a specially elaborated method of direct alpha-spectrometry of the preparations helped to clear up the nature of the radon daughter products distribution in the preparations helped to clear up the nature of the radon daughter products distribution in the mucosa of bronchial epithelium of dogs and rabbits. These data enable dosage loads on the mucosa of the bronchial epithelium to be measured more exactly when the air containing basal cells of the bronchial epithelium to be measured more exactly when the air containing RaA, RaB, RaC and RaC isotopes is inhaled by experimental animals.

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KHACHIYAN, E. YE.

"Seismic Spectra According to Individual Components of Accelerograms and Taking the Two Horizontal Components Jointly Into Account"

Yerevan, Doklady Akademii Nauk Armyanskoy SSR, Vol 51, No 4, 70, pp 207-213

Abstract: An attempt is made in this article to obtain certain qualitative and quantitative evaluations of the complex problem involved in the effect on a building of horizontal and vertical ground vibration components.

Two figures and one table are given to illustrate the findings in this article.

Some indication is given concerning the spectral identity of the source of the horizontal and vertical ground tremors. It is also found that the influence of attenuation on the spectral ordinates and the spectral characteristics is the same as in the case of horizontal vibrations.

The data in the table show that the maximal values for the total accelerations and shifts for individual buildings are up to two times that for the individual components, and that in the majority of cases they are 20-30% greater than the largest of the two maximal values from the individual

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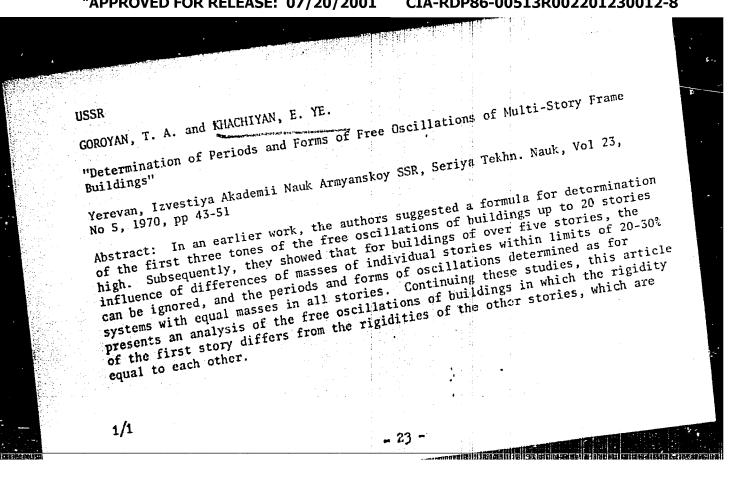
KHACHIYAN, E. YE., Doklady Akademii Nauk Armyanskoy SSR, Vol 51, No 4, 70, pp 207-213

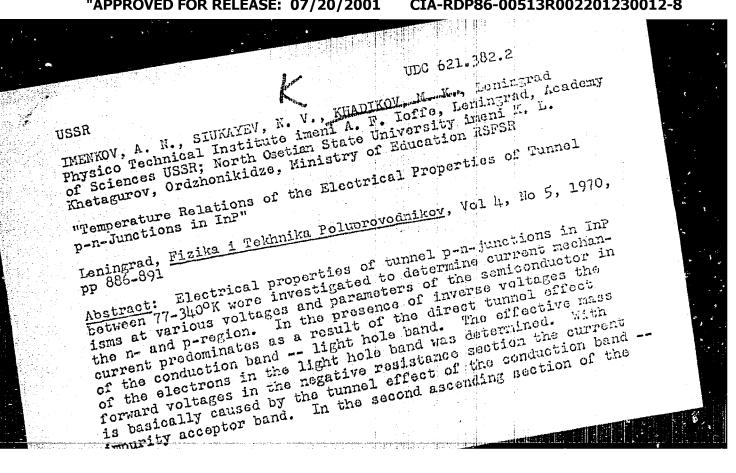
components. Thus, both components of the horizontal ground accelerations must be taken into account in order to find the real spectra.

Mention is made of the fact that the equipment used in preparing these data record shifts in the system with one degree of freedom in allowing for the two horizontal ground components; thus, in making comparisons with data obtained from other sources, some correction must be taken into account.

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IMENKOV, A. N., et al., Fizika i Teknnika Poluprovodnikov, Vol 4, No 5, 1970, pp 886-891

voltampere characteristic, the current obviously arises from tunneling from the deep impurity level. Monocrystalline plates of p-InP alloyed with 2n with a current carrier concentration basically of $p = 7.8.10^{18}$ cm⁻³ and a mobility of $\mu_0 = 30$ cm^{-/y}. sec at 2950K were used in the experiment. Iman/Imin conends much less on temperature then in the tunnel p-m-junctions made of GaAs and Go. The characteristic voltages Vmax, Vmin and Vr decrease with an increase in temporature; Wmax/dT is very large and larger than expented as a result of variation in depth of the Fermi levels.

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UDC: 620.191.32

TRIBUNSKIY, V. V., KALINICHENKO, I. I., and KHADYYEV, M. S.

"Study of Composition and Structure of Scale from Nickel (NP2 and NK0.2), Alumel and Chromel Wire Rod"

Izv. VUZ, Tsvetnaya Metallurgiya, No 3, 1970, pp 131-134

Abstract: Electronographic and chemical studies indicated that the scale from NP2 and NK0.2 alloy wire rod consists of NiO, NiFe₂O₄, and traces of nickel. The scale on alumel wire consists of NiO, NiAl₂O₄, NiMn₂O₄, Fe₅O₄, and traces of nickel, the scale from chromel wire - of NiO, NiCr₂O₄, Cr₂O₃, and (Fe, Cr)₂O₃. It is established that the upper layer of the scale on the wire rod of the alloys studied consists of NiO. The NiCr₂O₄, Cr₂O₃, (Fe, Cr)₂O₃ phases, as well as NiAl₂O₄ and NiMn₂O₄ are present as individual crystals, dispersed in the NiO. The NiFe₂O₄ and Fe₃O₄ spinels are present in the scale in the form of individual interlayers.

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KHADZHAYEV, A., Senior Scientific Worker, SredazIZR (Central Asian Institute for the Protection of Plants)

"On the Duration of Action of Organophosphorus Preparations"

Moscow, Zashchita Rasteniy, No 6, Jun 73, p 28

Translation: The aim of cur investigations was to verify the toxicity of insecticide-treated surface for granary weevil (Calandra granaria L.), confused flour beetle (Tribolium confusum Duv.), and for larvae of the brown dermestid, at various periods after spraying.

It was found that after 10 days the effectiveness of chlorophos, trolene (Ronnel), and trichlorometaphos-3, against gramary weevil and confused flour beetle had decreased by 5.2 and 6.1, 10.3 and 10.9, 7.4 and 12.4%, by 15. 3 and 14/1%.

Twenty days after treatment the action of chlorophos, methylnitrophos, metathion, trolene, and trichlorometaphos-3, on the granary weevil had decreased by 26.5, 34.5, 41.9, 32.3, and 27.7%, respectively, and on the confused flour beetle, by 20.4, 44.4, 37.7, 30.9 and 28%

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